

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 6-20-87	
Company: Amoco Production Company				Connection:	
Pool: Bravo Dome				Formation: Tubb	
Completion Date: 2-22-81		Total Depth: 2553'		Plug Back TD: 2500'	
				Elevation: 4730'	
Csg. Size: 5.50		Wt.: 14#		Set At: 2553'	
Tag. Size: 2.875		Wt.: 6.5#		Set At: 2116'	
				Perforations: From 2176' To 2478'	
				Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At: 2099'	
Single				County: Union	
Producing Thru: Tubing		Reservoir Temp. °F: 90		Mean Annual Temp. °F: 50	
				Baro. Press. - P _a : 12.25	
L		H		State: New Mexico	
		G _g		Prover	
		% CO ₂ : 100		% N ₂ : 0	
				% H ₂ S: 0	
				Meter Run: 4.0	
				Taps: Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.	4.026 x 2.25			192	23	60	285				24 hrs
2.	4.026 x 2.25			203	17	60	191	60	0		24 hrs
3.	4.026 x 2.25			217	9	62	202	60	0		24 hrs
4.	4.026 x 2.25			235	5	61	216	62	0		24 hrs
5.							234	61	0		24 hrs

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcd
1.							1497
2.							1284
3.							1073
4.							841
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					0	
2.						
3.						
4.						
5.						

NO.	P _r	P _w	P _w ²	P _c ² - P _w ²
1.	203.25	41,310	47,046	
2.	214.25	45,903	42,454	
3.	228.25	52,098	36,259	
4.	246.25	60,639	7,718	
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8781$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.8781$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2811$

Gas Liquid Hydrocarbon Ratio: 0

A.P.I. Gravity of Liquid Hydrocarbons: _____

Specific Gravity Separator Gas: 1.529

Specific Gravity Flowing Fluid: X X X X X

Critical Pressure: 1072 P.S.I.A.

Critical Temperature: 496 °R

Absolute Open Flow: 2811	Mcd @ 15.025	Angle of Slope θ: 45	Slope, n: 1.00
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Remarks: Test was run from a low flowing tubing pressure to a high flowing tubing pressure to minimize liquid loading effects.

Approved by Commission:	Conducted by: RANDY MAHANNAH	Calculated by: RICHARD ROETH	Checked by:
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